

Title (en)  
**MEMBRANE BIOREACTOR**

Title (de)  
**MEMBRANBIOREAKTOR**

Title (fr)  
**BIOREACTEUR A MEMBRANE**

Publication  
**EP 1751269 B1 20141029 (EN)**

Application  
**EP 05739899 A 20050518**

Priority  
• AU 2005000713 W 20050518  
• AU 2004902629 A 20040518

Abstract (en)  
[origin: WO2005111193A1] The invention provides a membrane comprising a gel reinforced by a support. The membrane has opposing surfaces and a thickness between said surfaces. The gel communicates between the opposing surfaces and allows diffusion of a nutrient solution through the membrane. A bioreactor is also provided, comprising a membrane-supporting structure, and a membrane according to the invention supported on the membrane-supporting structure.

IPC 8 full level  
**C12M 3/00** (2006.01); **C12M 1/12** (2006.01); **C12M 1/40** (2006.01); **C12M 3/06** (2006.01)

CPC (source: EP KR US)  
**C12M 29/04** (2013.01 - EP KR US); **C12M 29/20** (2013.01 - EP KR US)

Citation (examination)  
CAMPOSTRINI R ET AL: "IMMOBILIZATION OF PLANT CELLS IN HYBRID SOL-GEL MATERIALS", JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, SPRINGER, NEW YORK, NY, US, vol. 7, no. 1/02, 1 August 1996 (1996-08-01), pages 87 - 97, XP000620267, ISSN: 0928-0707, DOI: 10.1007/BF00401888

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005111193 A1 20051124**; CA 2566841 A1 20051124; CA 2566841 C 20120619; CN 1989236 A 20070627; CN 1989236 B 20120516; EP 1751269 A1 20070214; EP 1751269 A4 20100203; EP 1751269 B1 20141029; IL 179311 A0 20070308; IL 179311 A 20130324; JP 2007537734 A 20071227; JP 2012105678 A 20120607; JP 5639098 B2 20141210; JP 5647760 B2 20150107; KR 101090881 B1 20111208; KR 20070053662 A 20070525; MX PA06013421 A 20070301; NZ 551783 A 20090731; US 2008044850 A1 20080221; US 7951555 B2 20110531; ZA 200609979 B 20080625

DOCDB simple family (application)  
**AU 2005000713 W 20050518**; CA 2566841 A 20050518; CN 200580020449 A 20050518; EP 05739899 A 20050518; IL 17931106 A 20061115; JP 2007516879 A 20050518; JP 2012047931 A 20120305; KR 20067026646 A 20061218; MX PA06013421 A 20050518; NZ 55178305 A 20050518; US 56920105 A 20050518; ZA 200609979 A 20050518